

**ALS Environmental, Air Quality Laboratory**  
**Volatile Organic Compounds (VOCs)**  
**Low Level EPA Method TO-15 75 Compound List**



Method Reporting Limits (MRLs) assume a 1 L sample analysis volume (from 6L canister).

***Actual reporting limits will be higher*** depending on the canister pressurization dilution factor and/or sample matrix effects. Typical canister pressurization dilution factors for 6L cans are between 1.5-2.0.

	CAS #	Compound	ug/m3	ppbv
			MRL	MRL
1	115-07-1	Propene	0.50	0.29
2	75-71-8	Dichlorodifluoromethane (CFC 12)	0.50	0.10
3	74-87-3	Chloromethane	0.20	0.097
4	76-14-2	1,2-Dichloro-1,1,2,2-tetrafluoroethane (CFC 114)	0.50	0.072
5	75-01-4	Vinyl Chloride	0.10	0.039
6	106-99-0	1,3-Butadiene	0.20	0.090
7	74-83-9	Bromomethane	0.10	0.026
8	75-00-3	Chloroethane	0.10	0.038
9	64-17-5	Ethanol	5.0	2.7
10	75-05-8	Acetonitrile	0.50	0.30
11	107-02-8	Acrolein	2.0	0.87
12	67-64-1	Acetone	5.0	2.1
13	75-69-4	Trichlorofluoromethane	0.10	0.018
14	67-63-0	2-Propanol (Isopropyl Alcohol)	5.0	2.0
15	107-13-1	Acrylonitrile	0.50	0.23
16	75-35-4	1,1-Dichloroethene	0.10	0.025
17	75-09-2	Methylene Chloride	0.50	0.14
18	107-05-1	3-Chloro-1-propene (Allyl Chloride)	0.10	0.032
19	76-13-1	Trichlorotrifluoroethane	0.10	0.013
20	75-15-0	Carbon Disulfide	1.00	0.32
21	156-60-5	trans-1,2-Dichloroethene	0.10	0.025
22	75-34-3	1,1-Dichloroethane	0.10	0.025
23	1634-04-4	Methyl tert-Butyl Ether	0.10	0.028
24	108-05-4	Vinyl Acetate	5.0	1.4
25	78-93-3	2-Butanone (MEK)	5.0	1.7
26	156-59-2	cis-1,2-Dichloroethene	0.10	0.025
27	141-78-6	Ethyl Acetate	0.50	0.14
28	110-54-3	n-Hexane	0.50	0.14
29	67-66-3	Chloroform	0.10	0.02
30	109-99-9	Tetrahydrofuran (THF)	0.50	0.17
31	107-06-2	1,2-Dichloroethane	0.10	0.025
32	71-55-6	1,1,1-Trichloroethane	0.10	0.018
33	71-43-2	Benzene	0.10	0.031
34	56-23-5	Carbon Tetrachloride	0.10	0.086
35	110-82-7	Cyclohexane	0.50	0.15
36	78-87-5	1,2-Dichloropropane	0.10	0.022
37	75-27-4	Bromodichloromethane	0.10	0.015

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	CAS #	Compound	ug/m3	ppbv
			MRL	MRL
38	79-01-6	Trichloroethene	0.10	0.019
39	123-91-1	1,4-Dioxane	0.50	0.14
40	80-62-6	Methyl Methacrylate	0.50	0.12
41	142-82-5	n-Heptane	0.50	0.12
42	10061-01-5	cis-1,3-Dichloropropene	0.50	0.11
43	108-10-1	4-Methyl-2-pantanone	0.50	0.12
44	10061-02-6	trans-1,3-Dichloropropene	0.50	0.11
45	79-00-5	1,1,2-Trichloroethane	0.10	0.018
46	108-88-3	Toluene	0.50	0.13
47	591-78-6	2-Hexanone	0.50	0.12
48	124-48-1	Dibromochloromethane	0.10	0.012
49	106-93-4	1,2-Dibromoethane	0.10	0.013
50	123-86-4	n-Butyl Acetate	0.50	0.11
51	111-65-9	n-Octane	0.50	0.11
52	127-18-4	Tetrachloroethene	0.10	0.015
53	108-90-7	Chlorobenzene	0.10	0.022
54	100-41-4	Ethylbenzene	0.50	0.12
55	179601-23-1	m,p-Xylenes	0.50	0.12
56	75-25-2	Bromoform	0.50	0.048
57	100-42-5	Styrene	0.50	0.12
58	95-47-6	o-Xylene	0.50	0.12
59	111-84-2	n-Nonane	0.50	0.095
60	79-34-5	1,1,2,2-Tetrachloroethane	0.10	0.015
61	98-82-8	Cumene	0.50	0.10
62	80-56-8	alpha-Pinene	0.50	0.090
63	103-65-1	n-Propylbenzene	0.50	0.10
64	622-96-8	4-Ethyltoluene	0.50	0.10
65	108-67-8	1,3,5-Trimethylbenzene	0.50	0.10
66	95-63-6	1,2,4-Trimethylbenzene	0.50	0.10
67	100-44-7	Benzyl Chloride	0.50	0.097
68	541-73-1	1,3-Dichlorobenzene	0.10	0.017
69	106-46-7	1,4-Dichlorobenzene	0.10	0.017
70	95-50-1	1,2-Dichlorobenzene	0.10	0.017
71	5989-27-5	d-Limonene	0.50	0.090
72	96-12-8	1,2-Dibromo-3-chloropropane	0.50	0.052
73	120-82-1	1,2,4-Trichlorobenzene	0.50	0.067
74	91-20-3	Naphthalene	0.50	0.095
75	87-68-3	Hexachlorobutadiene	0.50	0.047

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			MRL	MRL	MRL	MRL